



**SAMARA
POLYTECH**
Flagship University

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Dmitry Bykov,
Rector, Doctor of Technical Sciences,
Honorary Figure of Russian Higher Education

Dear friends!

The main feature of our University has always been the polytechnic formation of skills in various areas of design, management, engineering and research activities. Responding to the main challenges of our time, the Flagship University is ready to act as the main platform for the modernization of the Samara region, to become a testing ground for the best Russian industrial and economic practices and initiatives.

“

Today we need for a qualitative technological breakthrough for the development of the Samara region. Samara State Technical University has always been a flagship university for us, as Samara Polytech scientists develop projects in all strategic economic sectors. Samara Polytech possesses such core competences as petrochemicals, oil and gas production and processing, energy, information, pharmaceuticals and food technologies, construction and architecture.



Dmitry Azarov,
Acting for the Governor
of the Samara region,
Strategic Council Chairman

Strategic Council of Flagship University

In 2018 the University formed the Strategic Council chaired by the Acting for the Governor of the Samara region, **Dmitry Azarov**. The co-chairman is the rector of the university, **Dmitry Bykov**.

The Council has become a public advisory structure with the functions of a supervisory body for the management and expert evaluation of the implementation of the flagship university "road map". Now the university is involved in processes aimed at sustainable socio-economic development of the region, acting as the initiator of regional and federal projects. The Strategic Council made it possible to create an effective mechanism for communication between education, business and government.

The Council also includes the State Duma Deputies **Vladimir Shamanov** and **Yevgeny Serper**, Senator **Sergei Mamedov**, Rosgvardia Director's Counsellor **Alexander Khinshtein**, Director of the Department for Regional Industrial Policy and Project Management of the Ministry of Industry and Trade of the Russian Federation **Sergey Bezrukov**, Head of Samara **Elena Lapushkina**, General Director of "Gazprom Transgaz Samara", Samara Regional Duma Deputy **Vladimir Subbotin**, General Director of "Samaraneftegaz" **Gani Gilayev**, President of the Group of Companies "Amond" **Rostislav Khugaev**.

Polytech History



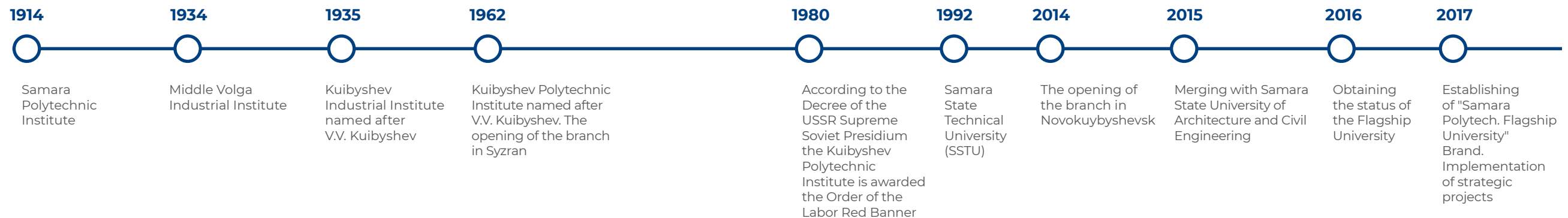
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I decree to establish a polytechnic institute in the city of Samara. It should consist of two faculties: a commercial-economic (with economic and commercial-technical departments) and an agricultural one. Everyone should consider this institute a higher educational institution



Nicholas II,
Russian Emperor, 1914

200 000+ graduates during 100 years



More about the history in the book
"Novomy Veky Navstrechy (Towards the New Century). SSTU is 100 years old. 1914 - 2014". Samara, 2014.

Outstanding Alumni



Viktor Chernomyrdin
Minister of the USSR Gas Industry, Chairman of the Russian Federation Government, Ambassador Extraordinary and Plenipotentiary of Russia in Ukraine
⌄ **Year of graduation: 1966**



Rem Vyakhirev
Deputy Minister of the USSR Gas Industry, Board Chairman of "Gazprom", laureate of the USSR State Prize, State Prize of the Russian Federation in the field of science
⌄ **Year of graduation: 1956**



Dmitry Azarov
Head of Samara in 2010 – 2014, Member of the Federation Council of the Federal Assembly of the Russian Federation, since September 2017 – Acting for the Governor of the Samara region.
⌄ **Year of graduation: 1992**



More about alumni in the book
Famous Alumni of Samara State Technical University.
Samara, 2014

Testimonials

Professionals



Eric Brisset
"Elektroshchit Samara"
Group President
The "Electroshield Samara" Group which is a part of "Schneider Electric" company, has a long history of cooperation with Samara State Technical University. We are very proud that the graduates of the oldest Samara university choose our company as a place of work. We are glad to make our modest contribution into the maintenance of the high quality of education at SSTU. I think I won't be exaggerating to say that not only the prospects for the electrical industry development but also the economic well-being of the country largely depend on you, Russian academic elite.



More testimonials at
<https://samgtu.com/node/22>

Students



Joel Nkangi
2017 Graduate
Studying at SSTU in itself is an experience of its own. Apart from being a historic university in this region, its one of the best of its kind in areas of Engineering, Chemistry and Physics, as its equipped with modern technology. As a student here, you'll be equipped with the necessary skills required to face the demands of the current job market, and with the supportive staff who are at the same time working professionals in their respective fields, you're guaranteed to have the best information you'll ever need from experience after all, who else knows better how to teach a particular trade than a person working in that same trade. Feel free to apply to this great university, the international office will always be there to help you through the process and when you arrive, with hard work and determination, you will enjoy the ride to success.

Polytech Today



560+

International Students

36

Countries

4670

Freshmen in 2017

138

Volunteers

12

Faculties and Institutes +
Academy of Civil Engineering and
Architecture

Facilities

83

Departments

8

Dormitories

26

Study Buildings

3

Branches

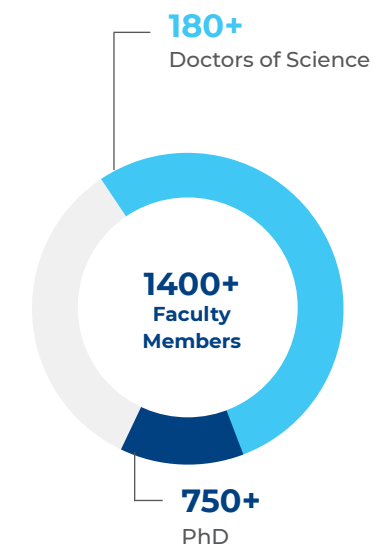
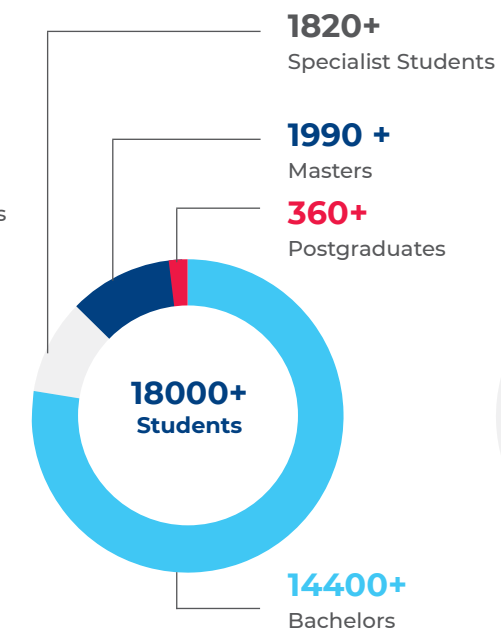
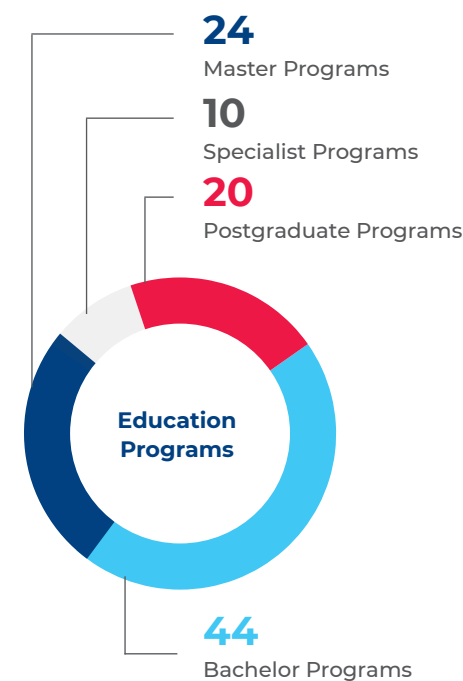
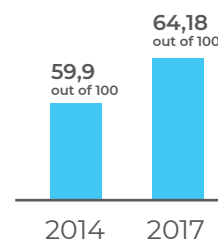
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Co-Working
Center

55

Scientific, Technical,
Research and Engineering
Centers

Average Points of Unified State Examinations



Rankings

“

I believe that we can deal with your university. We are ready to prepare joint mutually beneficial projects in the field of high technologies for successful people's lives. It is important that such cooperation also brings commercial profit.

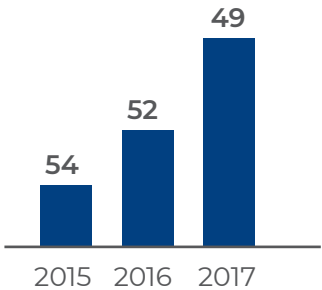


Thomas Gale,
Daimler Chrysler Vice President on the market strategy, design and external affairs, 1999

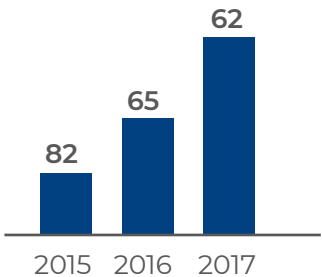


Russian Engineering Universities Ranking

3rd
position



Ranking "100 Russian Best Universities"



National University Ranking "Interfax"



171-180
position



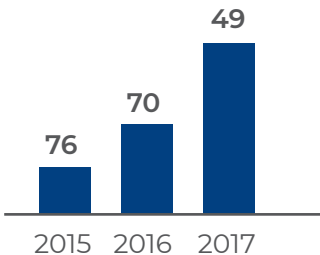
147
position



539
position
in the world

263
position
in Europe

27
position
in Russia



Russian Federation

Development Projects



Global Aims

- Creating the Image of Regional Society
- Managing Today's Economy Markets
- Making the Future Economy Markets



For the Region

- Technological Breakthrough + Development of Youth Entrepreneurship
- New Form of Educational Activities: Team Work on Projects
- Strategic Management Mechanism in the Region



For the University

- University's Own Development Mechanism

✓
CREATION of the Project Office for the strategy implementation of the Samara region development until 2030

✓
ACTING as the regional operator and coordinator of the information system "TECHRESURS" which covers the innovative activities of enterprises, scientific and educational organizations



✓
MANAGEMENT of the petrochemical cluster development of the Samara region

✓
MANAGING the children's techno park "Kvantorium63"

Strategic Projects of Samara Polytech

- 1 Territory of Life**

Creation of science-intensive environmental, pharmacological and food technologies for sustainable improvement of people's life quality in the region
- 2 Technology Polygon**

Creation of the innovations and future technologies center in all key economic clusters of the Samara region
- 3 Design and Technology Holding**

Creation of a project consortium capable of solving the problems of organizing and initiating large-scale innovation and investment projects
- 4 Communication Platform – 2020**

Creation of the main regional platform for forums, symposium, conferences at the University
- 5 Competences Builder. Multi-Disciplinary Team Projects**

Creation of Multi-Disciplinary Team Projects (MDTP) including professors, students and experienced industry specialists for developing innovative products and creating economy markets of the future
- 6 Educational Hub in the Region**

Increasing in the number of schoolchildren and students engaged in research activities under the qualified scientific and methodological supervision
- 7 Transformational Activities**

Intensification of the University development, development of the new University activities content due to the project analytical sessions technologies
- 8 The Seventh Redistribution**

Creating special conditions for changing the dominant use of natural gas, collaboration of scientific schools, industries, state government and potential investors in order to create a new gas chemical production
- 9 My City**

Creation of a regional competences center for urban environment planning and design for the development and implementation of modern methods of urban planning



Educational Activities

“

I appreciate the work of your University. It is a great pleasure for us that it is open for cooperation with British companies and promotion of different common projects



Roderick Line,
British Ambassador
to Russia, 2000



Project-Based Learning

Creation and realization of individual educational programs that allow to participate in complex research and (or) scientific and technical projects.



Interprofessional Competences

Selection, modulation and design of competences for solutions of specific scientific, technical and engineering problems.



Continuous Engineering Training

Various educational programs of research and project activities for schoolchildren, practice-oriented engineering training of students in the context of University and industrial partners cooperation.



Electronic Training

The system of online communications for intra- and interuniversity cooperation, co-learning centers using videoconferencing functions to broadcast and record events, professors' and scientists' open lectures on the Youtube University channel.



Academic Mobility

Joint Bachelor's, Master's, PhD and Postdoctoral programs with partner universities from Azerbaijan, France, Germany and other countries.

Professional Training Navigation



DESIGN

- Graphic Design
- Costume Design
- Environmental Design
- Industrial Design



CONTROL IN TECHNICAL SYSTEMS

- Standardization and Metrology
- Quality Management
- System Analysis and Control



TRANSPORT

- Technology of Transport Processing
- Exploitation of Transport and Technological Machines and Complexes



RADIOTECHNICS



ARCHITECTURE



ELECTRIC - AND HEAT POWER ENGINEERING



APPLIED MATHEMATICS AND INFORMATICS



PEDAGOGY



FOOD PRODUCTION TECHNOLOGIES

- Food Production from Plant Raw Materials
- Food Production and Food Services



APPLIED GEOLOGY



BIOTECHNOLOGIES



OIL AND GAS ENGINEERING



CONSTRUCTION

- Unique Buildings and Structures Construction
- Construction, Exploitation, Reconstruction and Technical Protection of Highways, Bridges and Tunnels



MECHANICAL ENGINEERING

- Technological Machines and Equipment
- Automation of Technological Processes and Production
- Design and Technological Support of Mechanical Engineering Industries



IT-sphere

- Informatics and Computer Science
- Information Systems and Technology
- Applied Informatics
- Software Engineering
- Information Security



METALLURGY



CHEMISTRY

- Chemistry, Physics and Mechanics of Materials
- Basic and Applied Chemistry
- Chemical Technology
- Energy and Recourse-Saving Processes in Chemical Engineering, Petrochemistry and Biotechnology
- Chemical Technology of Energy-Packed Materials and Products



ECOLOGY

- Technosphere Safety
- Protection in Case of Emergency
- Engineering Environmental Protection



TECHNOLOGY OF MATERIALS

- Material Engineering and Technology of Materials
- Technology of Artistic Processing of Materials



ECONOMICS AND MANAGEMENT

- Management
- Human Resources Management
- Governmental and Municipal Management
- Merchandizing
- Economics Security
- Customs



"The Golden Pool" of Samara Polytech

Artem Pivovarov is the best graduate of the year 2017. He was an Electrical Engineering Faculty student, he was awarded Rector's and University Academic Board's Scholarships, Alabin's Scholarship, Samara Region Governor's Scholarship and President's Scholarship. He is the author of 13 scientific publications in various journals

41
graduates

of 2017 belong
to "the Golden Pool"
of the University

The winners were awarded in 4 nominations for:



"Achievements
in Scientific Activities"



"Social Activities"





"Contribution
to the Sports
Development"



"Achievements in
Cultural Activities"



Schools for Applicants

-  Mathematics School "Talent"
-  Samara Mendeleev's School

Competitions in Polytech



Tournament
of M. V. Lomonosov



Interregional School Math
Competition "SAMMAT"



Multidisciplinary
Engineering
"Zvezda"



Interregional School Competition
"Future Researchers –
Future of Science"



Russian as a Foreign Language Summer School

"Vzlet" Program

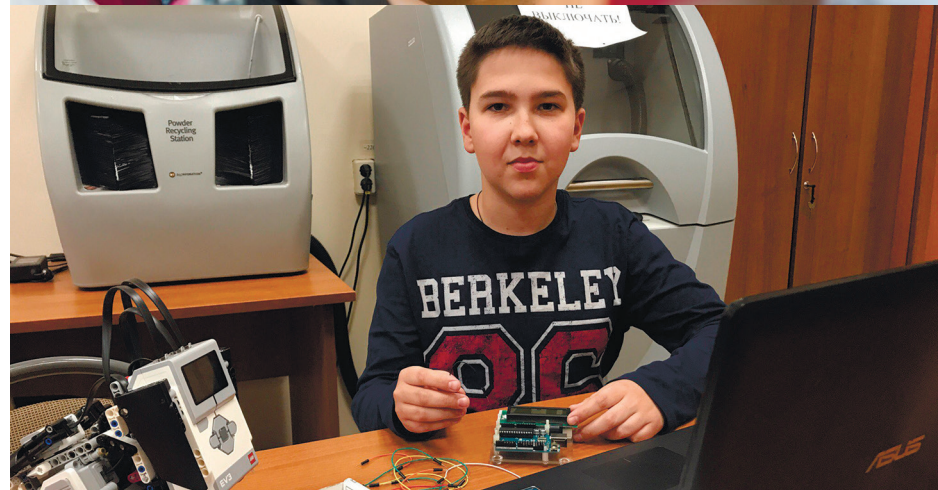
Coordination Council under the Governor of the Samara region for work with intellectually gifted children was established on the initiative of the interuniversity Department of Information and Educational Systems and Technologies of Samara Polytech in 2015. "Vzlet" Program was developed at the same time.

“

Flagship University is a modern multidisciplinary University with a developed system of all levels of education and management. It is considered to support economic, innovative and technological development of our region. The government of the region lays high hopes on Samara Polytech.



Alexander Kobenko,
Vice-Governor - Minister of
Economic Development,
Investments and Trade of the
Samara region, 2016



5000+

Schoolchildren registered on the website Vzletsamara.ru in 2017

500+

topics selected by children and teenagers for research and project work under the supervision of University professors

200

winners of the program are included in the Governor's register

Science and Innovation

1060+

Samara Polytech articles
are in the Web of Science
database

1980+

Samara Polytech
articles are in the Scopus
database

4

journals

of Samara Polytech are
included in the list of State
Commission for Academic
Degrees and Titles

1

journal

is included
in the Scopus
database

90

active patents
of the Russian
Federation

6

Dissertation Councils

60+

PhD (Candidate)
and Doctor's thesis
defenses per year

443

million rubles

is total funding
of scientific research and design
experimental works

90

million rubles

of Megagrant of the Government of
the Russian Federation for realization
of research "Thermodynamics and
catalysis as the basis of the strategy
of creation of perspective processes
of obtaining fuels from renewable
raw materials and technologies
of hydrogen accumulation using
unsaturated organic compounds"

WHAT The program
for the accelerated
development of startups.
Includes weekly tracking
sessions, workshops,
mentoring sessions and
seminars

WHO Leading
Russian business
experts and
specialists of Samara
Polytech give advice
to businessmen
beginners



More about the Accelerator at kb37.samgtu.ru



FOR WHAT Teams have
the opportunity to go to the
Federal program of the Fund
for the development of Internet
initiatives and GenerationS to
receive a grant of 2 million from
the Promotion of Innovation
Fund.

FOR WHOM The accelerator is
open for students and employees
of any University in the region, as
well as independent teams with
projects at the stage of idea and/
or prototype.

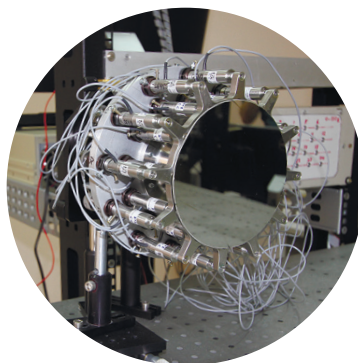
TOP-5 Latest Scientific Projects of Samara Polytech

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Partnership with Samara Polytech makes possible the development of joint Russian-Swiss projects in the fields of medicine, education, culture and science. I am confident that such a fruitful cooperation will allow us to make new scientific discoveries.



Frederik Paulsen,
President of the international
pharmaceutical company
"Ferring Pharmaceuticals", Honorary
Consul of the Russian Federation in
Lausanne, 2016



**Innovative Way to Control
Flexible Mirrors, Allowing to Avoid
Distortions in Telescopes**

Yakov KLEBANOV

Doctor of Technical Sciences, Head
of "Mechanics" Department

Konstantin POLYAKOV

Candidate of Physical and
Mathematical Sciences

Ravil AKHMETOV

Doctor of Technical
Sciences, First Deputy
General Director, General Designer,
Head
of "SRC-Progress"



**Methods for Producing Soil-Like
Materials from Various Industrial
Wastes**

Dmitriy BYKOV

Doctor of Technical Sciences

Konstantin CHERTES

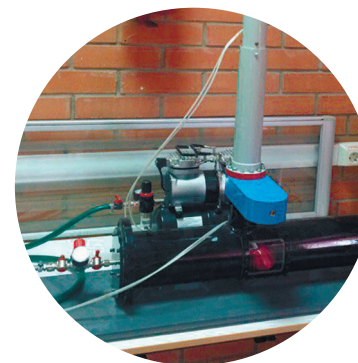
Doctor of Technical Sciences

Olga TUPITSYNA

Doctor of Technical Sciences

Vitaliy PYSTIN

Candidate of Technical Sciences



**Pitless Technology of Trunk Pipeline
Repair with the Use of Innovative
Overriding Device**

Vladimir TIAN

Doctor of Technical Sciences, Head
of "Pipeline Transport" Department

Nikolay DEDOV

Candidate of Technical Sciences

Irina FEDOTOVA

Natalia IVANOVA



**Complex for Neutralization
of Odorant Natural Gas Wastes
and Residues**

Andrei PIMENOV

Candidate of Chemical Sciences,
Head of "Chemistry and Technology
of Organic Nitrogen Compounds"
Department

Pavel KRASNIKOV

Candidate of Chemical Sciences



**Development of New Inhibitors
of Influenza Virus A, Hepatitis C
and Variola Viruses**

Yuriy KLIMCHKIN

Doctor of Chemical Sciences, Head
of "Organic Chemistry" Department

Vitaliy OSIANIN

Doctor of Chemical Sciences

Dmitriy OSIPOV

Candidate of Chemical Sciences

Marat BAIMURATOV

Candidate of Chemical Sciences

Youth Science

Program «UMNIK»
2017-2018

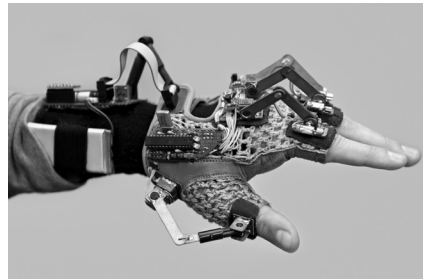
Best Ideas

“

The university has a glorious history and wonderful traditions. Here it is possible to adapt existing technologies for recycling to the Russian reality. It is important that representatives of a specialized business create basic departments in collaboration with the university, initiate the opening of joint laboratories — this is the right step that allows young people to enter the real sector of the economy.



Vladimir Gutenyov, Deputy of the State Duma of the Russian Federation, Vice-President of Russian Engineering Union, 2017



Vibro-glove — hearing aid for people with deep hearing loss

Artem BRAZHNIKOV



Development of edible biodegradable packaging based on apple raw materials

Yana DAVYDOVA



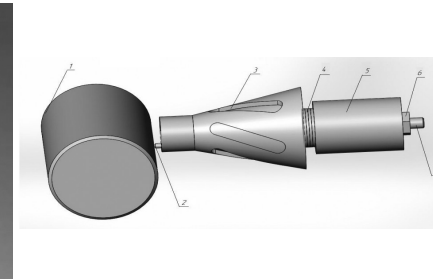
Automated control system for isolated power system modes with distributed

Artem PRONICHEV



Wind turbine with energy-efficient electromechanical converter for autonomous power supply systems

Alexey TABACHINSKIY



Device for forming regular surface microrelief using ultrasound to improve the performance characteristics of workpieces

Nadezhda KRYLOVA



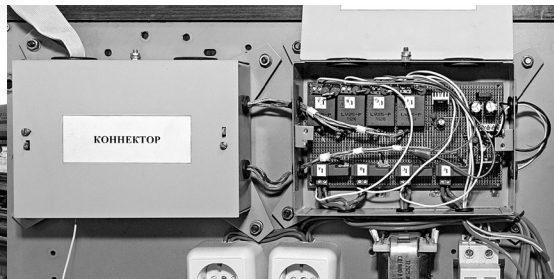
Device for overriding pipe nippers

Aleksandr LESHCHENKO



Controlled point retarder

Stanislav VAVILIN



Rotor winding protective equipment "ZORO"

Mikhail KRITSKIY



Anti-parking device with "friend-or-foe" recognition system


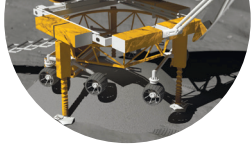







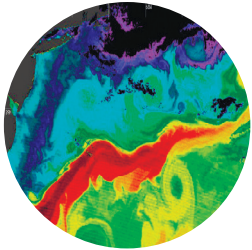
Aleksandr GOREV



Installation of continuous monitoring of aluminum grain size on the basis of acoustic emission measurement for use in foundries

Andrey BOCHKAREV

Inter-Disciplinary Project Teams

Open Competition					
External Experts	We are making an information-measuring system for determining alloy quality	We are building a prototype of heliolithography laboratory for 3D printing on the Moon surface	We are creating a digital model of cardiovascular system	We are developing a technology of obtaining edible food wraps and packaging materials on their basis	We are eliminating environmental damage by reagent treatment and washing methods
Real Project	Disciplines: <ul style="list-style-type: none"> • Measuring Technology • Physics • Metallurgy and Foundry • Mathematical Modelling • Non-Destructive Control 	Disciplines: <ul style="list-style-type: none"> • Metallurgy • Materials Science • Architecture • Space Engineering 	Disciplines: <ul style="list-style-type: none"> • Energy • Mathematical Modelling • Computer Engineering • Medicine 	Disciplines: <ul style="list-style-type: none"> • Chemistry • Design • Economics 	Disciplines: <ul style="list-style-type: none"> • Geology • Geophysics • Ecology • Chemistry • Oil and Gas • Petrochemistry
Unique Selection Criteria					
Mixed-Age Students from Different Study Programs					
Replacement of Traditional Educational Technologies	We are using neural networks in computer vision systems	We are designing flat gas cylinder	We are visualizing historical places using 3D-modeling	We are planning urban environment	We are developing sectors of hyperspectral monitoring
	Disciplines: <ul style="list-style-type: none"> • Automation • Programming • Machine Learning 	Disciplines: <ul style="list-style-type: none"> • Metalworking • 3D-modelling • Computer Engineering 	Disciplines: <ul style="list-style-type: none"> • Physics • Architecture • Programming 	Disciplines: <ul style="list-style-type: none"> • Architecture • Anthropology • Economics • Sociology • Design 	Disciplines: <ul style="list-style-type: none"> • Information Technology • Physics • Ecology • Cartography

The Largest International Forums and Conferences



X International Winter Symposium on Chemometrics (WSC-10)



IX International Policy Forum on Urban Growth and Conservation in Euro-Asian Corridor (The Silk Road)



XXVI All-Russian Mendeleyev's Conference of Young Scientists



VI International Ecological Congress ELPIT-2017



International Scientific Conference High-Rise Construction-2017



II International Swiss-Russian Forum "Innovation Day"





EDUCATIONAL
BUILDINGS



SANATORIUM



TOURIST RECREATION
CENTERS



MODERN
DORMITORIES



SWIMMING POOL



SKI CENTER
«CHAIKA»

Campus



Academic Library

- 8 Storage Facilities
- 12 Reading Rooms
- 8 Circulation Departments in 5 Buildings
- 1,3 Million Copies of Various Documents



Dormitory on Revolutsionnaya street

Opened in 2014

- 16 Floors
- 300+ Residential Places



Geological and Mineralogical Museum

Works since 2004

- 3000+ Mineralogical and Paleontological Samples



More information about the museum in the book Sidorov A.A. Geologo-mineralogicheskij muzej Samarskogo gosudarstvennogo tekhnicheskogo universiteta. Mineralogicheskaya kollekciya. Kniga pervaya [Geological and mineralogical museum of Samara State Technical University. Mineralogical collection. The first book]. Samara, 2014.



Sport Complex

- ✓ Boxing Hall
- ✓ Shooting Range
- ✓ Aerobics Room
- ✓ Small Mirror Room for Fitness Aerobics
- ✓ Martial Arts Hall
- ✓ Game Room

Extramural Activities



“

The early 60's in our country were called "hungry times" and it was difficult to study at the Polytechnic Institute. But there were wonderful teachers who gave us the real life lessons.



Viktor Chernomyrdin,
Prime Minister of the Russian Federation, 1995

Traditions Calendar



Sport

“

Social life in Polytech is in full swing. This university has always given the opportunity to progress comprehensively - in science, in sports, in creativity. Samara Polytech has always had excellent teachers - the titans of science and life experience.



Dmitriy Azarov,
Acting for the Governor of the Samara Region

Basketball



"Polytech-SSTU"

Women's team playing in the Super League of the Russian Basketball Championship

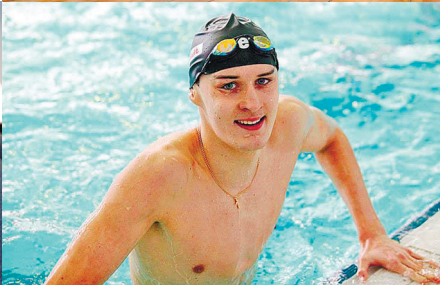
"Energy-SSTU"

Men's basketball team, member of the VTB student league



Chess

Since 2011 – the only one of its kind Department "Chess Art and Logic"



Swimming

Alexander Kudashev, a Heat Power Engineering Faculty student, international master of sport in swimming, silver and bronze medals owner of the World Summer Universiade - 2017 as part of the Russian national team



Modern Pentathlon

Alexander Lifanov, a Petroleum Engineering Faculty student, international master of sport, winner of the Youth Olympic Games in Nanjing, world champion in pentathlon among juniors



Box

Annual boxing tournament for prizes of the University President in Syzran branch of Samara Polytech



Mini-Football

"Techuniversity"
The team is a two-time winner of the Samara Championship in mini-football



Step Aerobics

"Madis-SSTU"
The team is winner of the All-Russia competitions in fitness aerobics in the age category from 17 years and older

Youth Forum of the Volga Federal District "iVolga"

Samara Polytech is a regular participant of the forum

Club of the Funny and Inventive (KVN)

KVN team "Volzhane – SSTU" in the 2017 season reached the semifinal of the Premier League on the First TV Channel

“

"Volzhane" from Samara is a very promising, interesting team, which, seems to me, is on the right track, unlike the previous several projects that appeared after Samara KVN team "SOK". This is not just a project but it feels like it's a real Funny and Inventive team



Aleksandr Maslyakov (jr.),
host of the KVN Premier League



Student Choir "Majolica"

The choir repertoire includes spiritual music, foreign classics, Russian folk songs, jazz, modern popular compositions

Fashion

Samara Polytech is a permanent venue for the Festival of Fashion and Theater Costumes "Volga Seasons of Aleksandr Vasiliev"

Media

1958

Newspaper "Injener"
(Engineer)

2011

Student Television
"Polytech TV"

2014

Journal
Tekhnopolis Povolzhiya
(Technopolis of the Volga Region)

2014

Annual Digest
"Technopolis of the
Volga region"

samgtu.com

samgtu_official

@sstuofficial

instagram.com/samgtu

Student Project –
CYC LIVE (Cultural and
Youth Center)

rector@samgtu.ru
international.samgtu@gmail.com

samgtu63

Academic Partners of Samara Polytech

50+ European and Asian Universities

Industrial Partners